

SDC 4. Risk of head and neck cancer for selected occupations (three -digit ISCO code), overall, and by duration of employment*

Occupation	ISCO -68	Overall		Duration of employment<=10years		Duration of employment >10 years		Test for linear trend	P- value
		Ca/Co	OR (95% CI)**	Ca/Co	OR (95% CI)**	Ca/Co	OR (95% CI)**		
Cooks	531	245/327	1.36 (1.09-1.68)	135/212	1.21 (0.89-1.64)	108/99	1.72 (0.69-4.27)	0.005	
Waiters- bartenders and related workers	532	258/308	1.45 (1.17-1.8)	158/220	1.36 (1.02-1.81)	94/73	1.27 (0.54-3.01)	0.001	
Maids and related housekeeping service workers not elsewhere classified	540	250/434	1.08 (0.88-1.33)	124/248	1.04 (0.71-1.53)	126/186	0.63 (0.34-1.17)	0.58	
Building caretakers	551	85/99	1.31 (0.92-1.86)	48/62	1.13 (0.72-1.79)	37/36	4.23 (0.93-19.33)	0.24	
Charworkers- cleaners and related workers	552	277/380	1.38 (1.13-1.69)	184/254	1.13 (0.8-1.6)	88/108	1.27 (0.51-3.15)	0.003	
Launderers- dry- cleaners and pressers	560	54/69	1.3 (0.85-2)	36/43	1.12 (0.5-2.53)	17/21	1.55 (0.31-7.68)	0.18	
Fire-fighters	581	34/48	1.78 (1.06-2.99)	8/14	0.62 (0.14-2.67)	24/23	2.79 (0.31-25.19)	0.01	
Policemen and detectives	582	86/160	0.95 (0.69-1.3)	32/54	0.74 (0.43-1.27)	49/90	0.53 (0.13-2.22)	0.75	
Protective service workers not elsewhere classified	589	121/160	1.1 (0.82-1.47)	82/115	1.27 (0.72-2.26)	39/45	2.46 (0.67-8.95)	0.62	
Miners and quarrymen	711	112/105	1.42 (1.02-1.98)	64/70	1.55 (0.84-2.87)	48/32	0.7 (0.16-3)	0.18	
Mineral and stone treaters	712	13/14	0.88 (0.37-2.09)	9/9	1.16 (0.28-4.8)	4/5	2.48 (0.02-345.08)	0.27	
Well drillers- borers and related workers	713	11/7	2.3 (0.76-6.95)	5/5	0.34 (0.04-3.01)	6/2	10.6***	0.04	
Metal smelting- converting and refining furnacemen	721	20/33	0.87 (0.46-1.67)	13/28	0.57 (0.22-1.49)	7/5	1.79 (0.07-48.67)	0.63	
Metal rolling-mill workers	722	11/8	1.52 (0.53-4.32)	6/6	0.26 (0.02-3.6)	5/2	17.47***	0.30	
Metal melters and reheaters	723	8/10	0.92 (0.3-2.82)	6/6	0.22 (0.02-3.03)	2/4	***	0.81	
Metal casters	724	25/15	2.54 (1.21-5.33)	15/13	1.18 (0.28-5.04)	10/2	18.2***	0.004	
Metal moulders and coremakers	725	33/24	1.88 (1.03-3.44)	23/15	0.89 (0.27-2.9)	10/9	5.47 (0.27-109.9)	0.12	
Metal annealers- temperers and case-hardeners	726	19/20	1.85 (0.87-3.95)	13/9	4.62 (0.95-22.4)	6/4	5.67 (0.11-301.82)	0.05	
Metal drawers and extruders	727	12/7	2.03 (0.68-6.07)	11/5	2.79 (0.41-18.89)	1/2	<0.001***	0.69	
Metal platers and coaters	728	30/17	2.32 (1.15-4.67)	22/13	2.24 (0.72-6.91)	8/4	1.11 (0.05-23.37)	0.13	
Metal processors not elsewhere classified	729	83/81	1.19 (0.82-1.72)	45/38	1.06 (0.48-2.32)	36/28	1.27 (0.23-7.18)	0.72	
Wood treaters	731	7/8	0.96 (0.29-3.2)	5/7	0.76 (0.14-3.99)	2/1	<0.001***	0.60	
Sawyers- plywood makers and related wood-processing workers	732	42/41	1.31 (0.79-2.17)	31/35	1.19 (0.62-2.28)	11/5	0.01 (<0.001-3.66)	0.41	
Paper pulp preparers	733	5/5	1.73 (0.4-7.52)	2/5	2.91 (0.16-52.06)	3/0	***	0.19	

Paper makers	734	14/21	0.88 (0.39-1.99)	10/16	1.35 (0.25-7.39)	4/4	1.3 (0-924.99)	0.66
Fibre preparers	751	19/13	3.41 (1.47-7.9)	14/10	2.63 (0.66-10.53)	5/3	81.8***	0.01
Spinners and winders	752	72/61	1.6 (1.06-2.4)	56/50	1.47 (0.73-2.99)	16/11	1.69 (0.2-14.39)	0.02
Weaving- and knitting-machine setters and pattern-card preparers	753	10/18	0.6 (0.24-1.5)	5/14	0.94 (0.1-8.98)	5/4	0.17 (<0.001-80.66)	0.51
Weavers and related workers	754	67/60	1.59 (1.04-2.42)	51/45	1.17 (0.5-2.71)	16/15	0.78 (0.1-6.09)	0.05
Knitters	755	23/16	3.04 (1.43-6.46)	16/14	2.42 (0.63-9.21)	7/2	66.6***	0.01
Bleachers- dyers and textile product finishers	756	34/28	1.67 (0.93-3)	23/19	1.94 (0.57-6.62)	11/9	2.02 (0.22-18.48)	0.11
Spinners- weavers- knitters- dyers and related workers not elsewhere classified	759	14/16	1.39 (0.57-3.39)	7/11	1.36 (0.26-7.08)	7/5	14.09***	0.31
Grain millers and related workers	771	17/22	0.71 (0.34-1.47)	11/14	1.03 (0.2-5.44)	6/8	0.05 (0-1.74)	0.45
Sugar processors and refiners	772	10/6	1.26 (0.38-4.12)	7/4	0.65 (0.04-11.53)	3/2	476.12***	0.45
Butchers and meat preparers	773	187/151	1.61 (1.24-2.1)	87/81	1.73 (0.94-3.18)	98/63	1.81 (0.72-4.53)	0.001
Food preservers	774	21/23	1.35 (0.67-2.69)	16/18	1.07 (0.28-4.1)	5/5	1.44 (0.04-53.02)	0.37
Dairy product processors	775	26/33	1.25 (0.69-2.28)	18/12	1.97 (0.75-5.13)	8/11	2.55 (0.14-47.33)	0.64
Bakers- pastrycooks and confectionery makers	776	168/184	1.27 (0.98-1.64)	105/107	1.42 (0.84-2.41)	63/77	0.73 (0.26-2.06)	0.24
Tea- coffee and cocoa preparers	777	2/7	0.4 (0.07-2.25)	1/4	<0.001***	1/3	***	0.41
Brewers- wine and beverage makers	778	21/19	2.09 (0.99-4.42)	13/15	1.65 (0.66-4.1)	8/4	0.43 (<0.001-253.12)	0.04
Food and beverage processors not elsewhere classified	779	29/21	1.72 (0.89-3.32)	19/13	1.51 (0.42-5.42)	7/4	1.53 (0.03-84.51)	0.33
Tailors and dressmakers	791	47/129	0.76 (0.51-1.13)	29/80	0.62 (0.26-1.47)	18/49	0.31 (0.08-1.21)	0.12
Fur tailors and related workers	792	-	-	-	-	-	-	-
Milliners and hatmakers	793	2/5	1.04 (0.16-6.71)	2/5	<0.001***	-	-	0.53
Patternmakers and cutters	794	24/34	0.99 (0.53-1.85)	9/23	1.05 (0.22-4.93)	15/11	4.28 (0.47-38.82)	0.527
Sewers and embroiderers	795	53/135	1.13 (0.78-1.65)	33/88	0.87 (0.41-1.86)	20/47	0.89 (0.26-3.06)	0.53
Upholsterers and related workers	796	27/42	0.72 (0.4-1.3)	15/17	0.69 (0.28-1.7)	10/19	0.3 (0.02-5.8)	0.10
Tailors- dressmakers- sewers- upholsterers and related workers not elsewhere classified	799	12/17	1.37 (0.56-3.37)	5/5	0.37 (0.02-9.26)	4/3	2.58 (0.05-143.25)	0.43
Shoemakers and shoe repairers	801	33/38	0.88 (0.5-1.55)	20/14	1.04 (0.25-4.28)	13/24	0.72 (0.11-4.69)	0.20
Shoe cutters- lasters- sewers and related workers	802	53/57	1.21 (0.77-1.91)	34/43	1.46 (0.61-3.52)	19/14	0.62 (0.07-5.34)	0.50

Leather goods makers	803	14/35	0.76 (0.37-1.56)	9/32	0.56 (0.23-1.36)	5/3	2.45 (0.06-104.66)	0.84
Cabinetmakers	811	119/152	1.08 (0.8-1.45)	69/96	0.92 (0.53-1.59)	50/56	0.45 (0.13-1.56)	0.79
Woodworking-machine operators	812	42/61	1.43 (0.89-2.3)	28/50	1.33 (0.61-2.9)	14/11	1.08 (0.11-10.99)	0.13
Cabinetmakers and related woodworkers not elsewhere classified	819	62/87	1.09(0.73-1.63)	47/65	0.8 (0.38-1.69)	14/22	1.2 (0.18-7.79)	0.73
Blacksmiths-hammersmiths and forging-press operators	831	81/57	1.54 (1.02-2.35)	50/45	1.41 (0.8-2.47)	31/12	0.25 (0.03-1.91)	0.07
Toolmakers- metal patternmakers and metal markers	832	79/84	1.99 (1.36-2.91)	45/48	2.36 (1.44-3.87)	34/36	2.02 (0.53-7.63)	0.02
Machine-tool setter-operators	833	91/141	1.01 (0.73-1.39)	53/84	0.9 (0.58-1.38)	38/57	0.58 (0.15-2.15)	0.89
Machine-tool operators	834	248/291	1.37 (1.1-1.7)	166/185	1.39 (0.99-1.95)	82/101	0.81 (0.34-1.95)	0.25
Metal grinders-polishers and tool sharpeners	835	59/53	1.21 (0.78-1.88)	36/37	1.03 (0.46-2.31)	23/16	0.48 (0.08-2.95)	0.16
Blacksmiths- toolmakers and machine-tool operators not elsewhere classified	839	340/296	1.28 (1.01-1.63)	291/237	1.2 (0.89-1.61)	45/37	1.67 (0.47-5.99)	0.18
Machinery fitters and machine assemblers	841	289/454	1.45 (1.18-1.77)	188/300	1.42 (1.08-1.86)	99/144	1.13 (0.5-2.58)	0.01
Watch- clock and precision instrument makers	842	30/60	1.15 (0.69-1.93)	16/31	1.61 (0.51-5.14)	13/24	2.17 (0.31-15.33)	0.87
Motor vehicle mechanics	843	365/400	1.39 (1.15-1.67)	195/225	1.21 (0.9-1.62)	159/157	0.68 (0.33-1.42)	0.03
Aircraft engine mechanics	844	26/59	1.18 (0.68-2.03)	15/41	2.11 (0.67-6.72)	11/14	1.4 (0.13-15.57)	0.46
Machinery fitters- machine assemblers and precision instrument makers (except electrical) not elsewhere classified	849	364/561	1.15 (0.97-1.38)	174/340	0.81 (0.57-1.17)	180/188	1.7 (0.84-3.47)	0.07
Electrical fitters	851	102/198	0.88 (0.66-1.18)	53/108	0.9 (0.48-1.72)	49/90	1.76 (0.59-5.24)	0.20
Electronics fitters	852	57/120	1.1 (0.75-1.6)	30/74	0.79 (0.32-1.95)	27/46	1.52 (0.44-5.22)	0.44
Electrical and electronics equipment assemblers	853	50/69	1.43 (0.93-2.21)	30/52	0.81 (0.36-1.82)	20/17	2.08 (0.35-12.33)	0.05
Radio and television repairmen	854	23/38	1.14 (0.6-2.16)	15/20	1.17 (0.5-2.75)	8/15	3.12 (0.21-45.82)	0.71
Electrical wiremen	855	208/279	1.37 (1.09-1.72)	112/157	1.47 (1.07-2.02)	96/122	1.77 (0.76-4.11)	0.05
Telephone and telegraph installers	856	24/62	0.91 (0.53-1.56)	14/41	0.95 (0.31-2.87)	10/21	0.5 (0.05-4.99)	0.73
Electric linemen and cable jointers	857	53/65	1.63 (1.04-2.54)	25/38	1.56 (0.62-3.92)	28/27	3.43 (0.39-30.24)	0.09
Electrical fitters and related electrical and electronics	859	22/37	1.59 (0.85-3)	18/29	2.4 (0.88-6.55)	4/8	0.55 (0.01-42.69)	0.19

workers not elsewhere classified								
Plumbers and pipe fitters	871	224/197	1.63 (1.27-2.08)	108/106	0.81 (0.47-1.4)	116/91	1.12 (0.5-2.53)	0.001
Welders and flame-cutters	872	256/219	1.51 (1.2-1.9)	128/137	1.08 (0.68-1.71)	127/68	0.86 (0.33-2.26)	0.001
Sheet-metal workers	873	155/189	1.13 (0.86-1.47)	77/119	0.81 (0.48-1.34)	76/67	0.38 (0.13-1.13)	0.22
Structural metal preparers and erectors	874	97/99	1.75 (1.24-2.46)	62/72	1.55 (0.85-2.8)	35/27	1.77 (0.34-9.31)	0.01
Rubber and plastics product makers (except tire makers and tire vulcanisers)	901	93/97	1.4 (0.99-1.98)	63/73	1.31 (0.85-2.02)	30/24	8.19 (1.08-61.91)	0.05
Tire makers and vulcanisers	902	33/31	1.13 (0.63-2.03)	12/19	0.39 (0.1-1.46)	21/12	0.13 (0-6.42)	0.47
Painters-construction	931	235/157	1.82 (1.42-2.35)	117/83	1.98 (1.35-2.9)	115/71	2.87 (1.15-7.16)	0.002
Painters not elsewhere classified	939	138/108	1.36 (1-1.85)	64/66	1.31 (0.69-2.49)	74/40	1.32 (0.36-4.79)	0.14
Bricklayers-stonemasons and tile setters	951	509/356	1.29 (1.08-1.55)	207/128	1.19 (0.88-1.62)	300/171	0.64 (0.36-1.15)	0.06
Reinforced-concreters- cement finishers and terrazzo workers	952	107/71	2.08 (1.45-2.97)	63/42	1.7 (0.8-3.63)	44/29	1.3 (0.33-5.12)	0.003
Roofers	953	50/30	2.27 (1.35-3.8)	22/15	1.29 (0.41-4.01)	28/12	3.16 (0.53-18.92)	0.003
Carpenters- joiners and parquetry workers	954	292/306	1.52 (1.23-1.87)	156/175	1.81 (1.31-2.5)	129/112	0.98 (0.46-2.09)	0.01
Plasterers	955	70/40	2.45 (1.57-3.85)	30/21	2.08 (1.07-4.03)	40/19	1.98 (0.32-12.15)	0.001
Insulators	956	35/20	1.97 (1.03-3.76)	24/12	2.43 (0.69-8.61)	11/8	0.49 (0.02-9.66)	0.08
Glaziers	957	18/23	0.94 (0.44-2.03)	8/17	0.42 (0.11-1.63)	8/4	1.2 (0.01-200.98)	0.69
Construction workers not elsewhere classified	959	450/463	1.25 (1.05-1.5)	258/251	1.24 (0.9-1.7)	187/197	0.99 (0.53-1.85)	0.33
Dockers and freight handlers	971	392/421	1.33 (1.11-1.6)	274/330	0.82 (0.6-1.11)	115/83	1.43 (0.57-3.58)	0.002
Riggers and cable splicers	972	9/8	1.95 (0.66-5.77)	3/6	0.69 (0.02-20.31)	6/2	2.62 (0.04-170.77)	0.17
Crane and hoist operators	973	63/60	1.68 (1.09-2.59)	38/29	1.38 (0.66-2.9)	25/24	0.47 (0.07-3.18)	0.05
Earth-moving and related machinery operators	974	132/107	1.5 (1.1-2.04)	67/65	0.96 (0.48-1.9)	65/42	2.21 (0.69-7.07)	0.01
Material-handling equipment operators not elsewhere classified	979	121/117	1.75 (1.28-2.4)	66/81	0.85 (0.45-1.63)	55/36	3.21 (0.84-12.25)	0.001
Ships' deck ratings- barge crews and boatmen	981	56/71	1.51 (0.99-2.31)	39/51	1.21 (0.64-2.26)	17/20	1.65 (0.2-13.51)	0.19
Ships' engine-room ratings	982	17/25	1.75 (0.88-3.49)	13/19	4.66 (1.27-17.12)	4/6	0.01 (<0.001-4.41)	0.65
Railway engine drivers and firemen	983	30/41	1.12 (0.65-1.95)	14/17	1.35 (0.37-4.99)	16/24	1.2 (0.04-32.83)	0.82
Railway brakemen-	984	36/57	0.89 (0.54-1.48)	19/31	1.47 (0.56-3.85)	16/18	2.51 (0.19-33.05)	0.83

signalmen and shunters								
Motor vehicle drivers	985	1082/1064	1.27 (1.12-1.44)	433/492	1.29 (1.07-1.55)	629/508	0.97 (0.65-1.46)	0.03
Animal and animal-drawn vehicle drivers	986	17/11	1.17 (0.47-2.9)	10/11	2.46 (0.45-13.53)	7/0	>999.999***	0.54
Transport equipment operators not elsewhere classified	989	24/31	1.5 (0.78-2.9)	11/9	0.58 (0.12-2.92)	7/5	1.59 (0.03-101.54)	0.32
Labourers not elsewhere classified	999	713/703	1.37 (1.18-1.6)	505/568	1.23 (1.01-1.5)	206/129	1.42 (0.73-2.76)	<.001

*Reference category for estimate of a given occupation is never having worked in all of the a priori occupations. **Adjusted for age, sex, level of education, race, stud, region, alcohol and tobacco consumption. *** sample size inadequate. – sample size zero.

Reference category: For overall analysis: Cases- 2810, Control- 6540. For analysis by duration: Cases- 2640, Control- 5354. NYMC is not included in the analysis by duration.